

LAHIVE  
&  
COCKFIELD  
L L P

COUNSELLORS AT LAW  
28 STATE STREET  
BOSTON, MASSACHUSETTS 02109-1784  
TELEPHONE (617) 227-7400  
FAX (617) 742-4214  
lc@lahcoc.com

JOHN A. LAHIVE, JR. (1928-1997)  
THOMAS V. SMURZYNSKI  
RALPH A. LOREN  
GIULIO A. DeCONTI, JR.  
ANN LAMPORT HAMMITTE  
ELIZABETH A. HANLEY  
AMY BAKER MANDRAGOURAS  
ANTHONY A. LAURENTANO  
KEVIN J. CANNING  
JANE E. REMILLARD  
JEANNE M. DIGIORGIO  
DEBRA J. MILASINCIC, Ph.D.  
NICHOLAS P. TRIANO, III  
WILLIAM D. DeVAUL

CHI SUK KIM  
DAVID J. RIKKERS  
DAVID R. BURNS  
JOHN S. CURRAN  
SEAN D. DETWEILER  
ADAM M. GOODMAN\*

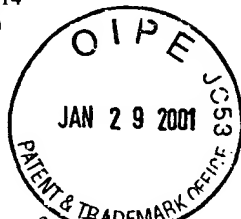
SENIOR COUNSEL  
JAMES E. COCKFIELD

OF COUNSEL  
JEREMIAH LYNCH  
WILLIAM A. SCOFIELD, JR.  
PETER C. LAURO\*  
DeANN FORAN SMITH\*\*

\* Admitted in NY only  
\*\* Admitted in MI only  
\*\*\* Passed the Patent Bar Examination

PATENT AGENTS  
MEGAN E. WILLIAMS, Ph.D.  
PETER S. STECHER

TECHNICAL SPECIALISTS  
MARIA LACCOTRIPE ZACHARAKIS, Ph.D.\*\*\*  
CYNTHIA M. SOROOS  
PETER W. DINI, Ph.D.  
EUIHOON LEE  
LISA M. DIROCCO  
JENNIFER K. ROSENFELD  
JUDITH STONE-HULSLANDER, Ph.D.  
ALLAN TAMESHTIT, Ph.D.  
CATHERINE E. McPHERSON  
RICHANAND  
GARY W. PLOURDE II



January 22, 2001

Assistant Commissioner for Patents  
Washington, D.C. 20231

Re: U.S. Patent Application No.: 09/658,969  
*METHODS FOR MODULATING THE ACTIVITY  
OF MSH5 (as Amended)*  
Inventor: Winfried Edelmann et al.  
Filed: September 11, 2000  
Our Ref. No.: AHN-001DV2

Dear Sir:

I enclose herewith for filing in the above-identified application the following:

1. Information Disclosure Statement;
2. PTO Form 1449; and
3. A Return Postcard.

No additional costs are believed to be due in connection with the filing of this Information Disclosure Statement. However, please charge any necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080. For this purpose, a duplicate of this sheet is attached.

I hereby certify that this correspondence is deposited with the United States Postal Service as first class mail in an envelope addressed to:  
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Washington, D.C. 20231 on:

Date

Amy E. Mandragouras, Registration Number 36,207

Respectfully submitted,  
LAHIVE & COCKFIELD, LLP

Amy E. Mandragouras  
Registration Number 36,207  
Attorney for Applicants

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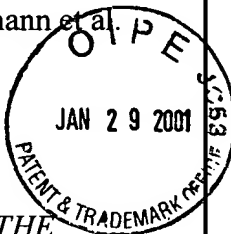
In re the application of: Winfried Edelmann et al.

Serial No.: 09/658,969

Filed: September 11, 2000

For: *METHODS FOR MODULATING THE  
ACTIVITY OF MSH5 (as Amended)*

Attorney Docket No.: AHN-001DV2



Group Art Unit: 1646

Examiner:

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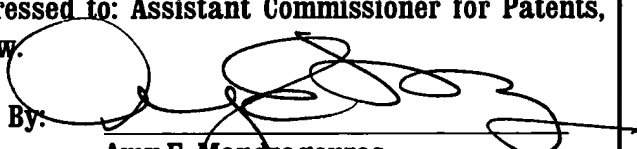
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Date of Signature and of Mail Deposit

By:

  
Amy E. Mandragouras  
Registration No. 36,207  
Attorney for Applicants

**INFORMATION DISCLOSURE STATEMENT**

Dear Sir:

Applicants and their attorney are aware of the following patents, publications or other information, which are cited on the attached PTO Form 1449, and in accordance with 37 C.F.R. §1.97 hereby submit these forms for the Examiner's consideration.

The present application is a Divisional Application of U.S. Serial No. 09/469,636, filed December 22, 1999 (Atty. Docket No. AHN-001). All references listed on

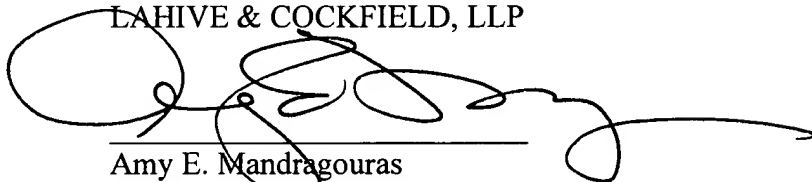
the enclosed PTO Form 1449 have been previously cited by or submitted to the Office in the prior application, and, in accordance with 37 C.F.R. §1.98(d), copies of these references are not enclosed herewith, but will be provided upon request.

This statement is not to be interpreted as a representation that the cited publications are material, that an exhaustive search has been conducted, or that no other relevant information exists. Nor shall the citation of any publication herein be construed *per se* as a representation that such publication is prior art. Moreover, Applicants understand that the Examiner will make an independent evaluation of the cited publications.

No additional costs are believed to be due in connection with the filing of this Information Disclosure Statement. However, please charge any necessary fees in connection with the enclosed statement to our Deposit Order Account No. 12-0080.

Respectfully submitted,

LAHIVE & COCKFIELD, LLP



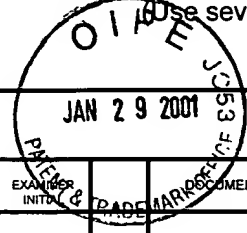
Amy E. Mandragouras  
Registration No. 36,207  
Attorney for Applicants

28 State Street  
Boston, MA 02109  
(617) 227-7400

Date: 1/22/01

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APPLICANT FACSIMILE OF FORM PTO-1449 REV 7-80	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO <b>AHN-001DV2</b>	SERIAL NO. <b>09/658,969</b>
LIST OF PUBLICATIONS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT <b>Winfried Edelmann et al.</b>	
		FILING DATE <b>September 11, 2000</b>	GROUP <b>1646</b>



## U.S. PATENT DOCUMENTS

EXAMINER INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
A1	WO 9901550	1/99	PCT			

## OTHERS (including Author, Title, Date, Pertinent Pages, Etc.)

A2	Akiyama Y, et al. "Germ-line mutation of the hMSH6/GTBP gene in an atypical hereditary nonpolyposis colorectal cancer kindred". <i>Cancer Res.</i> 1997 Sep 15;57(18):3920-3;
A3	Bawa S, et al. "A mutation in the MSH5 gene results in alkylation tolerance. " <i>Cancer Res.</i> 1997 Jul 1;57(13):2715-20;
A4	Baker SM, et al. "Involvement of mouse Mlh1 in DNA mismatch repair and meiotic crossing over." <i>Nat Genet.</i> 1996 Jul;13(3):336-42;
A5	Baker SM, et al. "Male mice defective in the DNA mismatch repair gene PMS2 exhibit abnormal chromosome synapsis in meiosis." <i>Cell.</i> 1995 Jul 28;82(2):309-19;
A6	de Vries SS, et al. "Mouse MutS-like protein Msh5 is required for proper chromosome synapsis in male and female meiosis". <i>Genes Dev.</i> 1999 Mar 1;13(5):523-31;
A7	Edelmann W, et al. "Meiotic pachytene arrest in MLH1-deficient mice". <i>Cell.</i> 1996 Jun 28;85(7):1125-34;
A8	Hollingsworth NM, et al. "MSH5, a novel MutS homolog, facilitates meiotic reciprocal recombination between homologs in <i>Saccharomyces cerevisiae</i> but not mismatch repair." <i>Genes Dev.</i> 1995 Jul 15;9(14):1728-39;
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A10	Leach FS, et al. "Mutations of a mutS homolog in hereditary nonpolyposis colorectal cancer". <i>Cell.</i> 1993 Dec 17;75(6):1215-25;
A11	Miyaki M, et al. "Germline mutation of MSH6 as the cause of hereditary nonpolyposis colorectal cancer." <i>Nat Genet.</i> 1997 Nov;17(3):271-2;
A12	Modrich P, et al. "Mismatch repair in replication fidelity, genetic recombination, and cancer biology". <i>Annu Rev Biochem.</i> 1996;65:101-33;

Examiner	Date Considered
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

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